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In the Claims

1. (currently amended) A sensor which is resistant to degradation at high temperature; said sensor comprising:

a substrate formed with a thin insulating coating from at least one noble metal and an oxide selected from the group consisting of: yttrium oxide, cerium oxide, zirconium oxide, and combinations of these;

a resistor, disposed on said substrate, formed from at least one noble metal and an oxide selected from the group consisting of yttrium oxide, cerium oxide, zirconium oxide, and combinations of these; and[[;]]

at least a first and second lead electrically connected to the resistor for transmitting an electrical signal.

2. (cancelled)

3. (original) The sensor of claim 1 wherein said resistor is deposited on said substrate.

4. (original) The sensor of claim 1 wherein said substrate comprises an insulator having a selected resistance value.

5. (cancelled)